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APPLICATION NO.	FILING DAT	re	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/085,972	02/28/200	2	Karoline Bechtold-Peters	1/1197	1212	
28501	7590 06/	30/2004		EXAMINER		
BOEHRINGER INGELHEIM CORPORATION				KISHORE, GO	KISHORE, GOLLAMUDI S	
900 RIDGEBURY ROAD P. O. BOX 368				ART UNIT	PAPER NUMBER	
RIDGEFIEL	D, CT 06877	1615				

DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	10/085,972	BECHTOLD-PETERS ET AL.						
Office Action Summary	Examiner	Art Unit						
	Gollamudi S Kishore, PhD	1615						
The MAILING DATE of this communication app Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply	IS SET TO EXPIRE 3 MONTH(S) FROM nely filed s will be considered timely.						
 If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	vill apply and will expire SIX (6) MONTHS from . cause the application to become ABANDONEI	the mailing date of this communication. D (35 U.S.C. § 133).						
Status								
, -	action is non-final.	secution as to the merits is						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	,							
Disposition of Claims								
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-6</u> is/are rejected.								
7) Claim(s) is/are objected to.	·							
8) Claim(s) are subject to restriction and/or	r election requirement.							
Application Papers								
9) The specification is objected to by the Examine	r.							
10) The drawing(s) filed on is/are: a) according		Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage						
Attachment(s)	of the doration depicts not receive							
1) Notice of References Cited (PTO-892)	4) Interview Summary							
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4-14-04. 	Paper No(s)/Mail Date of Informal F	ate Patent Application (PTO-152)						
A B								

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DETAILED ACTION

Claims included in the prosecution are 1-6.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Maitra (5,874,111).

Maitra discloses water-soluble drugs coated with poloxamer (note abstract,

Figure 1, col. 1, line 64-67; claim 7).

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Weers et al (6,309,623).

Weers et al disclose particles of water-soluble drugs such as albuterol sulfate,

cromolyn sodium and gentamicin sulfate coated

with poloxamer or sorbitan esters such as sorbitan monooleate. The particles further contain solid sodium chloride and sodium phosphate. The aerodynamic diameter of the

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particles 1.23 microns (abstract, col. 17, lines 3-15; Examples III and IV on col. 32 and Example VIII on col. 35).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weers cited and for the reasons set forth above or Baichwal (5,738,865).

The teachings of Weers have been discussed above. Instant claims recite alcohol (sorbitan) esters as one of the

surfactants. What are lacking in Weers are examples showing the use of sorbitan esters. However, it would have been obvious to one of ordinary skill in the art to use sorbitan esters, with a reasonable expectation of success, since Weers provides adequate guidance for the preparation of the particles.

Baichwal while disclosing powder insufflation formulations containing proteinaceous drugs and polysaccharides teaches that inclusion of a surfactant such as sorbitan esters and poloxamer modifies the release-controlling properties of the drug particles. The particle diameter ranges from 100 nanometers to 10 microns (abstract, col. 6, line 66 through col. 7, line 35; col. 7, line 43 through col. 9, line 32; col. 10, lines 64-68 and claims). It would have been obvious to one of ordinary skill in the art to coat

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the drug particles with the surfactants if the desired goal is to control the release rates of the drug particles based on the teaching of Baichwal.

The reference of Pitt (5,354,934) is cited of interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gollamudi S Kishore, PhD whose telephone number is (571) 272-0598. The examiner can normally be reached on 6:30 AM- 4 PM, alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gollamudi S Kishore, PhD Primary Examiner

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